

Ag. Waste Application and Excavated Ponds
Yankton County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation.)

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Ba: Baltic-----	85	Very limited Restricted permeability Depth to saturated zone Flooding Runoff limitation	1.00 1.00 1.00 0.40	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
Bb: Baltic-----	85	Very limited Restricted permeability Depth to saturated zone Flooding Runoff limitation	1.00 1.00 1.00 0.40	Somewhat limited Slow refill Cutbanks cave	0.98 0.10
Bc: Baltic-----	85	Very limited Restricted permeability Ponding Depth to saturated zone Runoff limitation	1.00 1.00 1.00 0.40	Somewhat limited Slow refill Cutbanks cave	0.98 0.10
BdE: Betts-----	50	Very limited Slope Restricted permeability	1.00 0.50	Very limited Deep to water	1.00
Gavins-----	30	Very limited Slope Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
Be: Blake-----	85	Very limited Sodium content Depth to saturated zone	1.00 0.09	Somewhat limited Deep to water Slow refill Cutbanks cave	0.54 0.30 0.10

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Bf: Blencoe-----	85	Very limited Restricted permeability Depth to saturated zone Runoff limitation	1.00 0.43 0.40	Somewhat limited Slow refill Deep to water Cutbanks cave	0.30 0.25 0.10
Bg: Blencoe-----	50	Very limited Restricted permeability Depth to saturated zone Runoff limitation	1.00 0.43 0.40	Somewhat limited Slow refill Deep to water Cutbanks cave	0.30 0.25 0.10
Gayville-----	35	Very limited Restricted permeability Sodium content Salinity Depth to saturated zone Runoff limitation	1.00 0.92 0.50 0.43 0.40	Somewhat limited Salty water Slow refill Deep to water Cutbanks cave	0.50 0.47 0.25 0.10
BhB: Blendon-----	50	Not limited		Very limited Deep to water	1.00
Thurman-----	25	Very limited Filtering capacity Leaching limitation Droughty	1.00 0.45 0.09	Very limited Deep to water	1.00
Bk: Blyburg-----	85	Not limited		Very limited Deep to water	1.00
Bm: Bon-----	90	Somewhat limited Flooding	0.60	Very limited Cutbanks cave Deep to water	1.00 0.81
BnA: Bonilla-----	55	Not limited		Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Crossplain-----	30	Very limited Flooding Depth to saturated zone Restricted permeability	1.00 1.00 0.81	Very limited Deep to water	1.00
BoE: Boyd-----	50	Very limited Slope Restricted permeability Droughty Depth to bedrock Runoff limitation	1.00 1.00 1.00 0.42 0.40	Very limited Deep to water	1.00
Ethan-----	30	Very limited Slope	1.00	Very limited Deep to water	1.00
Bp: Baltic-----	85	Very limited Restricted permeability Depth to saturated zone Flooding Runoff limitation	1.00 1.00 0.60 0.40	Somewhat limited Slow refill Cutbanks cave	0.97 0.10
Br: Blyburg-----	50	Not limited		Very limited Deep to water	1.00
Gayville-----	30	Very limited Restricted permeability Depth to saturated zone Sodium content Salinity Runoff limitation	1.00 0.95 0.92 0.50 0.40	Somewhat limited Salty water Slow refill Cutbanks cave Deep to water	0.50 0.47 0.10 0.02
Bs: Blencoe-----	80	Very limited Restricted permeability Depth to saturated zone Runoff limitation	1.00 0.95 0.40	Somewhat limited Slow refill Cutbanks cave Deep to water	0.30 0.10 0.02

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Ca: Chancellor-----	85	Very limited Restricted permeability Flooding Depth to saturated zone	1.00 1.00 1.00	Somewhat limited Slow refill Cutbanks cave	0.98 0.10
Cb: Clamo-----	85	Very limited Restricted permeability Depth to saturated zone Flooding Leaching limitation	1.00 1.00 0.60 0.50	Very limited Slow refill Cutbanks cave Salty water	1.00 0.10 0.01
Cc: Clamo Variant-----	90	Very limited Restricted permeability Depth to saturated zone Flooding Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
CdA: Clarno-----	85	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
CeB: Clarno-----	60	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Bonilla-----	20	Not limited		Very limited Deep to water	1.00
ChA: Clarno-----	50	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Crossplain-----	20	Very limited Flooding Depth to saturated zone Restricted permeability	1.00 1.00 0.81	Very limited Deep to water	1.00
Stickney-----	15	Very limited Restricted permeability Salinity	1.00 0.50	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.98 0.90 0.50 0.10
CkA: Clarno-----	40	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Crossplain-----	25	Very limited Flooding Depth to saturated zone Restricted permeability	1.00 1.00 0.81	Very limited Deep to water	1.00
Tetonka-----	15	Very limited Restricted permeability Ponding Depth to saturated zone Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave Salty water	0.30 0.10 0.01
CmE: Crofton-----	50	Very limited Slope	1.00	Very limited Deep to water	1.00
Nora-----	35	Very limited Slope	1.00	Very limited Deep to water	1.00
CoE: Crofton-----	50	Very limited Slope	1.00	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Boyd-----	35	Very limited Slope Restricted permeability Droughty Depth to bedrock Runoff limitation	1.00 1.00 1.00 0.42 0.40	Very limited Deep to water	1.00
DaB: Davis-----	85	Not limited		Very limited Deep to water	1.00
DbB: Davis Variant-----	85	Very limited Flooding	1.00	Very limited Deep to water	1.00
DcB: Davis-----	85	Not limited		Very limited Deep to water	1.00
EaB: Egan-----	50	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Chancellor-----	25	Very limited Restricted permeability Flooding Depth to saturated zone	1.00 1.00 1.00	Somewhat limited Slow refill Cutbanks cave	0.98 0.10
EbB: Egan-----	50	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Ethan-----	20	Not limited		Very limited Deep to water	1.00
Trent-----	20	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
EbC: Egan-----	40	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Ethan-----	30	Not limited		Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Trent-----	15	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
EcA: Egan-----	50	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Wentworth-----	35	Not limited		Very limited Deep to water	1.00
EcB: Egan-----	50	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Wentworth-----	40	Not limited		Very limited Deep to water	1.00
EdA: Egan-----	55	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Whitewood-----	30	Very limited		Somewhat limited Slow refill Cutbanks cave	
		Flooding	1.00		
		Depth to saturated zone	1.00		0.97
		Leaching limitation	0.50		0.10
Whitewood-----	30	Restricted permeability	0.50		
EeB: Egan-----	45	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Clarno-----	25	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Trent-----	20	Not limited		Very limited Deep to water	1.00
EfA: Egan-----	50	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Trent-----	35	Not limited		Very limited Deep to water	1.00
EfB: Egan-----	50	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Trent-----	30	Not limited		Very limited Deep to water	1.00
EhA: Enet-----	45	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Delmont-----	35	Very limited Depth to dense layer Filtering capacity Droughty	1.00 1.00 0.15	Very limited Deep to water	1.00
EhB: Enet-----	45	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Delmont-----	35	Very limited Depth to dense layer Filtering capacity Droughty	1.00 1.00 0.15	Very limited Deep to water	1.00
EkD: Ethan-----	90	Very limited Slope Cobble content Large stones on the surface Restricted permeability	1.00 1.00 0.92 0.50	Very limited Deep to water	1.00
EmE: Ethan-----	50	Very limited Slope	1.00	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Betts-----	30	Very limited Slope Restricted permeability	1.00 0.50	Very limited Deep to water	1.00
EnC: Ethan-----	55	Not limited		Very limited Deep to water	1.00
Bonilla-----	30	Not limited		Very limited Deep to water	1.00
EoD: Ethan-----	55	Somewhat limited Slope	0.63	Very limited Deep to water	1.00
Davis-----	35	Somewhat limited Slope	0.63	Very limited Deep to water	1.00
EpD: Ethan-----	45	Somewhat limited Slope	0.63	Very limited Deep to water	1.00
Talmo-----	35	Very limited Filtering capacity Droughty Leaching limitation Slope	1.00 0.87 0.45 0.37	Very limited Deep to water	1.00
ErD: Ethan-----	60	Somewhat limited Slope	0.63	Very limited Deep to water	1.00
Clarno-----	30	Somewhat limited Slope Restricted permeability	0.63 0.50	Very limited Deep to water	1.00
EsD: Ethan-----	55	Very limited Slope	1.00	Very limited Deep to water	1.00
Bon-----	25	Very limited Flooding	1.00	Somewhat limited Deep to water Cutbanks cave	0.81 0.10
EtC: Ethan-----	50	Not limited		Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Egan-----	35	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
Fa: Forney-----	85	Very limited Restricted permeability	1.00	Very limited Slow refill	1.00
		Depth to saturated zone	1.00	Cutbanks cave	0.10
		Runoff limitation	0.40	Deep to water	0.01
Fb: Forney-----	80	Very limited Restricted permeability	1.00	Very limited Slow refill	1.00
		Depth to saturated zone	0.95	Cutbanks cave	0.10
		Runoff limitation	0.40	Deep to water	0.02
Ga: Grable-----	85	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
		Flooding	0.60		
GAV: Orthents, Loamy-----	100	Very limited Slope	1.00	Very limited Deep to water	1.00
		Restricted permeability	0.50		
Gb: Graceville-----	85	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Ha: Haynie-----	85	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
Hb: Haynie-----	85	Not limited		Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Ja: James-----	85	Very limited Restricted permeability Depth to saturated zone Flooding Salinity Sodium content	1.00 1.00 1.00 1.00 0.82	Very limited Slow refill Salty water Cutbanks cave	1.00 1.00 0.10
La: Lakeport-----	85	Somewhat limited Depth to saturated zone	0.09	Somewhat limited Deep to water Slow refill Cutbanks cave	0.54 0.30 0.10
Lb: Lamo-----	85	Very limited Depth to saturated zone Flooding Restricted permeability	1.00 0.60 0.50	Somewhat limited Slow refill Cutbanks cave Deep to water	0.97 0.10 0.01
Lc: Luton-----	85	Very limited Restricted permeability Depth to saturated zone Flooding Runoff limitation	1.00 1.00 0.60 0.40	Very limited Slow refill Cutbanks cave	1.00 0.10
Ld: Luton-----	85	Very limited Restricted permeability Depth to saturated zone Ponding Flooding Runoff limitation	1.00 1.00 1.00 0.60 0.40	Very limited Slow refill Cutbanks cave	1.00 0.10
M-W: Miscellaneous Water-	100	Not rated		Not rated	

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Oa: Onawa-----	85	Very limited Restricted permeability Leaching limitation Depth to saturated zone	1.00 0.50 0.09	Somewhat limited Deep to water Cutbanks cave	0.54 0.10
Ob: Owego-----	85	Very limited Depth to saturated zone Runoff limitation	1.00 0.40	Somewhat limited Slow refill Cutbanks cave Deep to water	0.30 0.10 0.01
Pa: Orthents, Gravelly--	99	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 0.95 0.45	Very limited Deep to water	1.00
Ra: Redstoe Variant-----	90	Somewhat limited Slope	0.37	Very limited Deep to water	1.00
Rb: Roxbury-----	85	Very limited Flooding	1.00	Somewhat limited Deep to water Slow refill Cutbanks cave	0.96 0.30 0.10
Rc: Roxbury-----	90	Somewhat limited Flooding	0.60	Somewhat limited Deep to water Slow refill Cutbanks cave	0.96 0.30 0.10
Rd: Roxbury-----	85	Very limited Flooding	1.00	Somewhat limited Deep to water Slow refill Cutbanks cave	0.96 0.30 0.10
Sa: Salix-----	90	Not limited		Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Sb: Salmo-----	85	Very limited Depth to saturated zone Flooding Restricted permeability Salinity Leaching limitation	1.00 1.00 0.81 0.50 0.50	Somewhat limited Salty water Slow refill Cutbanks cave	0.50 0.47 0.10
SdA: Sardak-----	85	Very limited Filtering capacity Droughty Flooding Leaching limitation	1.00 0.65 0.60 0.45	Very limited Deep to water	1.00
SeA: Sardak-----	50	Very limited Filtering capacity Droughty Flooding Leaching limitation	1.00 0.65 0.60 0.45	Very limited Deep to water	1.00
Grable-----	35	Very limited Flooding Filtering capacity	1.00 1.00	Very limited Deep to water	1.00
TaE: Talmo-----	55	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 0.87 0.45	Very limited Deep to water	1.00
Thurman-----	30	Very limited Slope Filtering capacity Leaching limitation Droughty	1.00 1.00 0.45 0.09	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Tb: Tetonka-----	85	Very limited Restricted permeability Ponding Depth to saturated zone Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave Salty water	0.30 0.10 0.01
TcC: Thurman-----	40	Very limited Filtering capacity Leaching limitation Droughty	1.00 0.45 0.09	Very limited Deep to water	1.00
Ethan-----	35	Not limited		Very limited Deep to water	1.00
TdA: Trent-----	85	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00
W: Water-----	100	Not rated		Not rated	
Wa: Waubonsie-----	85	Very limited Restricted permeability Depth to saturated zone Flooding	1.00 1.00 0.60	Very limited Deep to water	1.00
WbA: Wentworth-----	85	Not limited		Very limited Deep to water	1.00
WcB: Wentworth-----	60	Not limited		Very limited Deep to water	1.00
Trent-----	25	Somewhat limited Restricted permeability	0.50	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Wd: Worthing-----	85	Very limited Restricted permeability Ponding Depth to saturated zone Runoff limitation	1.00 1.00 1.00 0.40	Somewhat limited Slow refill Cutbanks cave Salty water	0.97 0.10 0.01
We: Worthing-----	100	Very limited Restricted permeability Ponding Depth to saturated zone Runoff limitation	1.00 1.00 1.00 0.40	Somewhat limited Slow refill Cutbanks cave Salty water	0.97 0.10 0.01

